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P/N 145832

CAMBRIDGE ELECTRONICS LABORATORIES

===*Preliminary* November 21, 1997===

BLACK MAGIC TELEPHONE RINGING GENERATOR -- MICRO SQUARE WAVE MODEL P-BMR-SS

==========OPERATING CHARACTERISTICS==========

Specification		----Value----		Remark
Input voltage	(V_{dc})	5	12	5 V unit operate: 4.8-5.5 V 12 V unit operate: 11-16 V >*INPUT NOT PROTECTED AGAINST REVERSE POLARITY*<
Idle current	(mA)	~140	~90	
AC Output voltage	(V_{pk})			
@ 1 REN		43	47	
@ 2 REN		40	47	
@ 3 REN		38	47	
@ 4 REN		30	47	
@ 5 REN		--	47	
DC Output voltage	(V)	-14	-21	Internally generated d.c. bias for ring-trip comparator; measured when called telset off-hook through 300-ohm current-sensing resistor
Output frequency	(Hz)	---20± 0.5---		
Efficiency	(%)	~50	~60	
Operating temp.	(° C)	-10-->+70		
Storage temp.	(° C)	-10-->+85		

==========NOTES==========

(1) Device is intended for intermittent duty and should be powered down when not in use. Input power should be gated with semiconductor, not relay, due to inrush current.

(2) Output may be filtered to reduce potentially interfering harmonics

(3) Output is *NOT PROTECTED* against shorts; circuit must have series resistance of at least 300 Ω, normally part of ring trip circuit. If the latter's current sensing resistor is less than 300 Ω, additional resistance must be added.

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